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PHASES OF THE MOON, G. M. T.

			H. M.
First Quarter,	January 4,	7 52	A. M.
Full Moon,	January 11,	6 50	A. M.
Last Quarter,	January 17,	10 55	P. M.
New Moon,	January 25,	9 26	P. M.

THE SUN.

1895.	R. A.	Declination.	Rises.	Transits.	Sets.
	H. M.	° '	H. M.	H. M.	H. M.
Jan. 1.	18 47	— 23 1	7 24 A.M.	12 4 P.M.	4 44 P.M.
11.	19 31	— 21 48	7 23	12 8	4 53
21.	20 14	— 19 54	7 20	12 12	5 4
31.	20 55	— 17 22	7 12	12 14	5 16

*MERCURY.*

Jan. 1.	18 25	— 24 43	7 12 A.M.	11 45 A.M.	4 18 P.M.
11.	19 36	— 23 38	7 36	12 13 P.M.	4 50
21.	20 47	— 20 1	7 53	12 45	5 37
31.	21 54	— 13 56	7 57	1 13	6 29

*VENUS.*

Jan. 1.	19 31	— 23 10	7 57 A.M.	12 37 P.M.	5 17 P.M.
11.	20 14	— 21 10	8 4	12 51	5 38
21.	21 6	— 18 7	8 4	1 4	6 4
31.	21 56	— 14 13	7 59	1 14	6 29

*MARS.*

Jan. 1.	1 52	+ 12 38	12 20 P.M.	7 7 P.M.	1 54 A.M.
11.	2 8	+ 14 13	11 52 A.M.	6 44	1 36
21.	2 25	+ 15 50	11 24	6 22	1 20
31.	2 45	+ 17 27	10 58	6 3	1 8

*JUPITER.*

Jan. 1.	6 0	+ 23 15	3 46 P.M.	11 14 P.M.	6 42 A.M.
11.	5 55	+ 23 16	3 2	10 30	5 58
21.	5 50	+ 23 17	2 18	9 46	5 14
31.	5 47	+ 23 18	1 35	9 3	4 31

*SATURN.*

1895.	R. A. H. M.	Declination. ° '	Rises. H. M.	Transits. H. M.	Sets. H. M.
Jan. 1.	14 16	— 11 9	2 5 A.M.	7 30 A.M.	12 55 P.M.
11.	14 19	— 11 20	1 28	6 53	12 18
21.	14 21	— 11 27	12 52	6 16	11 40 A.M.
31.	14 22	— 11 31	12 14	5 38	11 2

*URANUS.*

Jan. 1.	15 5	— 17 4	3 14 A.M.	8 18 A.M.	1 22 P.M.
11.	15 7	— 17 11	2 38	7 41	12 44
21.	15 8	— 17 16	2 0	7 3	12 6
31.	15 9	— 17 20	1 22	6 25	11 28 A.M.

*NEPTUNE.*

Jan. 1.	4 50	+ 20 57	2 46 P.M.	10 5 P.M.	5 24 A.M.
11.	4 49	+ 20 56	2 5	9 24	4 43
21.	4 48	+ 20 55	1 25	8 44	4 3
31.	4 48	+ 20 54	12 45	8 4	3 23

ECLIPSES OF *JUPITER'S* SATELLITES, PACIFIC TIME.

	H. M.		H. M.
I R. Jan. 2,	12 9 A.M.	I R. Jan. 17,	10 28 P.M.
I R. 3,	6 38 P.M.	II R. 18,	3 24
II R. 3,	11 31	I R. 19,	4 57
I R. 9,	2 4 A.M.	III D. 21,	5 3
I R. 10,	8 33 P.M.	III R. 21,	7 49
I R. 12,	3 1	II R. 22,	4 41 A.M.
III R. 14,	3 38	I R. 25,	12 23
II R. 15,	2 6 A.M.	II R. 25,	5 59 P.M.
I R. 16,	3 59	I R. 26,	6 52
IV D. 17,	5 35	III D. 28,	9 4
IV R. 17,	6 8	III R. 28,	11 51

## PHASES OF THE MOON.

	H. M.
First Quarter, February 3,	12 16 A. M.
Full Moon, February 9,	5 23 P. M.
Last Quarter, February 16,	1 9 P. M.
New Moon, February 24,	4 44 P. M.

THE SUN.

1895.	R. A.		Declination.		Rises.	Transits.		Sets.	
	H.	M.	'		H. M.	H. M.		H. M.	
Feb. 1.	21	0	— 17	5	7 11 A. M.	12 14	P. M.	5 17	P. M.
11.	21	40	— 14	0	6 59	12 14		5 29	
21.	22	18	— 10	32	6 47	12 14		5 41	
Mar. 3.	22	56	— 6	48	6 32	12 12		5 52	

MERCURY.

Feb. 1.	22	1	— 13	14	7 57 A.M.	1 15	P.M.	6 33	P.M.
11.	22	46	— 6	29	7 39	1 21		7 3	
21.	22	41	— 4	31	6 48	12 36		6 24	
Mar. 3.	22	6	— 8	30	5 40	11 15	A.M.	4 50	

VENUS.

Feb. 1.	22	1	— 13	48	7 59 A.M.	1 15	P.M.	6 31	P.M.
11.	22	48	— 9	13	7 51	1 23		6 55	
21.	23	34	— 4	13	7 40	1 30		7 20	
Mar. 3.	0	19	+ 0	57	7 28	1 35		7 42	

MARS.

Feb. 1.	2	47	+ 17	36	10 56 A.M.	6 1	P.M.	1 6	A.M.
11.	3	8	+ 19	9	10 31	5 42		12 53	
21.	3	30	+ 20	34	10 8	5 25		12 42	
Mar. 3.	3	54	+ 21	51	9 47	5 9		12 31	

JUPITER.

Feb. 1.	5	46	+ 23	18	1 31 P.M.	8 59	P.M.	4 27	A.M.
11.	5	44	+ 23	18	12 50	8 18		3 46	
21.	5	44	+ 23	20	12 10	7 38		3 6	
Mar. 3.	5	45	+ 23	21	11 32 A.M.	7 0		2 28	

SATURN.

Feb. 1.	14	22	— 11	32	12 10 A.M.	5 34	A.M.	10 58	A.M.
11.	14	23	— 11	32	11 31 P.M.	4 55		10 19	
21.	14	23	— 11	29	10 52	4 16		9 40	
Mar. 3.	14	22	— 11	23	10 10	3 35		9 0	

URANUS.

Feb. 1.	15	9	— 17	21	1 18 A.M.	6 21	A.M.	11 24	A.M.
11.	15	10	— 17	23	12 39	5 42		10 45	
21.	15	10	— 17	24	11 59	5 3		10 5	
Mar. 3.	15	10	— 17	23	11 20 P.M.	4 23		9 26	

## NEPTUNE.

1895.	R. A. H. M.	Declination. ° '	Rises. H. M.	Transits. H. M.	Sets. H. M.
Feb. 1.	4 48	+ 20 54	12 41 P.M.	8 0 P.M.	3 19 A.M.
11.	4 47	+ 20 54	12 02	7 21	2 40
21.	4 47	+ 20 54	11 22 A.M.	6 41	2 0
Mar. 3.	4 47	+ 20 55	10 43	6 2	1 21

## ECLIPSES OF JUPITER'S SATELLITES, PACIFIC TIME.

	H. M.		H. M.
I R. Feb. 1,	2 19 A.M.	II R. Feb. 16,	1 45 A.M.
II R.	1, 8 35 P.M.	I R.	17, 12 39
I R.	2, 8 47	I R.	18, 7 8 P.M.
IV D.	2, 11 25	II R.	19, 3 3
IV R.	3, 12 37 A.M.	IV D.	19, 5 23
I R.	4, 3 16 P.M.	IV R.	19, 6 59
III D.	5, 1 4 A.M.	I R.	24, 2 34 A.M.
III R.	5, 3 52	I R.	25, 9 3 P. M.
II R.	8, 11 10 P.M.	III R.	26, 3 56
I R.	9, 10 43	II R.	26, 5 38
I R.	11, 5 12	I R.	27, 3 32

## PHASES OF THE MOON, G. M. T.

First Quarter,	March 4,	12 40 P. M.
Full Moon,	March 11,	3 38 A. M.
Last Quarter,	March 18,	5 32 A. M.
New Moon,	March 26,	10 25 A. M.

## THE SUN.

1895.	R. A. H. M.	Declination. ° '	Rises. H. M.	Transits. H. M.	Sets. H. M.
Mar. 1.	22 49	— 7 34	6 36 A.M.	12 13 P.M.	5 50 P.M.
11.	23 25	— 3 42	6 20	12 10	6 0
21.	0 2	+ 0 15	6 3	12 7	6 11
31.	0 39	+ 4 10	5 44	12 4	6 24

## MERCURY.

Mar. 1.	22 12	— 7 35	5 50 A.M.	11 28 A.M.	5 6 P.M.
11.	21 58	— 10 54	5 17	10 43	4 9
21.	22 21	— 11 12	5 1	10 26	3 51
31.	23 4	— 8 19	4 56	10 30	4 4

*VENUS.*

1895.	R. A. H. M.	Declination. ° '	Rises. H. M.	Transits. H. M.	Sets. H. M.
Mar. 1.	0 10	— 0 5	7 30 A.M.	1 34 P.M.	7 38 P.M.
11.	0 55	+ 5 5	7 19	1 40	8 1
21.	1 40	+ 10 5	7 7	1 45	8 23
31.	2 27	+ 14 42	6 58	1 52	8 46

*MARS.*

Mar. 1.	3 49	+ 21 37	9 51 A.M.	5 12 P.M.	12 33 A.M.
11.	4 13	+ 22 45	9 31	4 57	12 23
21.	4 38	+ 23 40	9 12	4 42	12 12
31.	5 3	+ 24 22	8 57	4 29	12 1

*JUPITER.*

Mar. 1.	5 44	+ 23 21	11 39 A.M.	7 7 P.M.	2 35 A.M.
11.	5 46	+ 23 23	11 2	6 30	1 58
21.	5 50	+ 23 25	10 26	5 54	1 22
31.	5 54	+ 23 27	9 51	5 19	12 47

*SATURN.*

Mar. 1.	14 22	— 11 25	10 19 P.M.	3 44 A.M.	9 9 A.M.
11.	14 21	— 11 16	9 38	3 3	8 28
21.	14 19	— 11 5	8 56	2 22	7 48
31.	14 17	— 10 52	8 14	1 40	7 6

*URANUS.*

Mar. 1.	15 10	— 17 24	11 28 P.M.	4 31 A.M.	9 34 A.M.
11.	15 10	— 17 22	10 48	3 51	8 54
21.	15 9	— 17 19	10 8	3 11	8 14
31.	15 8	— 17 14	9 28	2 31	7 34

*NEPTUNE.*

Mar. 1.	4 47	+ 20 55	10 51 A.M.	6 10 P.M.	1 29 A.M.
11.	4 47	+ 20 56	10 12	5 31	12 50
21.	4 48	+ 20 57	9 33	4 52	12 11
31.	4 49	+ 20 59	8 54	4 13	11 32 P.M.

## ECLIPSES OF JUPITER'S SATELLITES, PACIFIC TIME.

			H.	M.				H.	M.
I	R.	Mar. 4,	10	59	P.M.	I	R.	Mar. 13,	7 24 P.M.
III	D.	5,	5	5		I	R.	18,	2 51 A.M.
III	R.	5,	7	58		III	D.	20,	1 6
I	R.	6,	5	28		I	R.	20,	9 20 P.M.
I	R.	12,	12	55	A.M.	I	R.	22,	3 49
III	D.	12,	9	5	P.M.	I	R.	27,	11 15
III	R.	12,	10	49		I	R.	29,	5 44
III	R.	12,	11	59		II	R.	30,	5 18

THE METEOR OF JULY 27, 1894, 7<sup>h</sup> 30<sup>m</sup> P. S. T.

BY EDWARD S. HOLDEN.

[Abstract.]

A great number of observations of this splendid meteor were received at the LICK Observatory, either directly, or through the kind offices of Hon. A. S. TOWNE, Hon. C. F. CROCKER, Hon. R. THOMPSON and others. Some of the best were not available till the middle of October. Very complete observations of the meteor's position and appearance were made at Mount Hamilton by seven observers. Professor AITKEN of the University of the Pacific sent the only *complete* observation received here, *viz.*, the altitude and azimuth of the meteor when it exploded, and the same co-ordinates of the point where it disappeared. Many good determinations of the point of explosion were received, the best being those of Professor FRIEND (Carson), Mr. CARLETON and Mr. BURCKHALTER (CHABOT Observatory), Mr. GEORGE BRAY (Santa Clara), Mr. W. B. JOHNSON and Mr. STONEROAD (Merced), Mr. HERROLD and Mr. HERRING (San José). Drawings of the brilliant cloud left by the explosion were received from Professor SCHAEBERLE (Mount Hamilton), Mr. JOHNSON (Merced), Mr. STEWART (Visalia); and excellent accounts of this cloud from Dr. O'BRIEN (Merced) and others. A beautiful and artistic water-color drawing of the phenomenon has been presented to the Observatory by Mr. CHAUNCEY M. ST. JOHN, which represents the general appearance in a most satisfactory way. The determinations of the place where the meteor disap-